

Work Order ID 109454

November-21-13 2:28:13 PM

109454

Page 1

Item ID: D412-711-021

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 11/21/13 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: MLJ Date: 13-11-25 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D412-711	<u>G H M</u>

100	DOCUMENT CONTROL	0.00							
100									
DC	Memo <u>11.10.</u>	0.00							
Document Control	Photocopy bluefiles and create labels per PPP D412-711-021 CHG001								

DAS
31
9-89
14-02-19

120	Pick Kit	0.00							
120	Purchasing								
Packaging	Memo	0.00							
Packaging									

1x DAS
28
9-89
14-02-13

130	QC4- 100% Inspect kits for completeness	0.00							
130									
QC	Memo	0.00							
Quality Control									

DAS
31
9-89
14-02-19

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 109454***109454***

Page 2

November-21-13 2:28:13 PM

Item ID: D412-711-021

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 11/21/13 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150		0.00							
150									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-711-021								
	Location: _____								
	PPP rev: _____								
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.00							
Quality Control									

14-2-19
DAS
6
9-89

MLJ 14-02-19
MLJ 14-02-19

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

November-21-13 2:28:11 PM

Page 1

Work Order ID: 109454

Parent Item: D412-711-021

Parent Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13

Required Date: 11/21/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 11.04.07 new issue DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D412-761-043 Latch Mechanism		Manufactured	No			120	Each	1.0000	1	1	106406		DAS 6 9-89
	DAS 31 9-89			<u>Location</u> FG030 106889		<u>Loc Qty</u> 1 1		<u>Loc Code</u>					
D412-711-101 Replacement Vertical Reference Window		Manufactured	No			120	Each	5.0000	1	1			DAS 6 9-89
	DAS 31 9-89			<u>Location</u> FG090 101695 102127 106386 94691		<u>Loc Qty</u> 5 1 1 2 1		<u>Loc Code</u>					
D3802-1-120 Window Seal 120"	DAS 31 9-89	Manufactured	No			120	Each	0.0000	1	1	112283		DAS 28 9-89 14-02-14
D4165-1 Doubler	DAS 31 9-89	Manufactured	No			120	Each	0.0000	1	1	106396		DAS 28 9-89
D4165-3 Inner Door Panel	DAS 31 9-89	Manufactured	No			120	Each	0.0000	1	1	106408		DAS 28 9-89
D4165-5 Aft Rib	DAS 31 9-89	Manufactured	No			120	Each	0.0000	1	1	106421		DAS 28 9-89
D4165-7 Fwd Rib	DAS 31 9-89	Manufactured	No			120	Each	0.0000	1	1	106373		DAS 28 9-89
D4165-9 Angle	DAS 31 9-89	Manufactured	No			120	Each	1.0000	1	1			DAS 28 9-89
				<u>Location</u> ST206 79132		<u>Loc Qty</u> 1 1		<u>Loc Code</u>					
										79132			

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

November-21-13 2:28:12 PM

Page 2

Work Order ID: 109454

Parent Item: D412-711-021

Parent Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13

Required Date: 11/21/13

Start Qty: 1.00

Required Qty: 1.00

D4165-11 Manufactured No

Door Cover Panel

DAS

31

9-89

Location

Loc Qty

Loc Code

ST206

10

106344

10

Manufactured No

120 Each 0.0000

D4207-1 Window Retainer

DAS

31

9-89

D4207-3 Instrument Window

DAS

31

9-89

Location

Loc Qty

Loc Code

ST206

6

101815

2

106327

4

Manufactured No

120 Each 0.0000

D4269-1 Angle

DAS

31

9-89

D4269-3 Angle

DAS

31

9-89

D4269-5 Angle

DAS

31

9-89

D4269-7 Angle

DAS

31

9-89

D4324-041 Armrest Assembly

DAS

31

9-89

Location

Loc Qty

Loc Code

ST103

1

84221

1

Manufactured No

120 Each 1.0000

D4324-043 Arm Support Assy

DAS

31

9-89

Location

Loc Qty

Loc Code

ST

1

106378

1

14-02-14

109537

109429

109569

109462

3109466

109413

109513

November-21-13 2:28:12 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

November-21-13 2:28:12 PM

Page 3

Work Order ID: 109454

Parent Item: D412-711-021

Parent Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13

Required Date: 11/21/13

Start Qty: 1.00

Required Qty: 1.00

D4327-1

Angle

Manufactured No

120 Each 1.0000

1 1

DAS

28

9-89

14-02-14

DAS

31

9-89

Location

ST206

Loc Qty

1

Loc Code

79133

1

109522

D4327-3

Angle

Manufactured No

120 Each 0.0000

1 1

DAS

28

9-89

D4385-1

Placard

Manufactured No

120 Each 10.0000

2 2

DAS

28

9-89

9-89

DAS

31

9-89

Location

ST104

Loc Qty

10

Loc Code

106367

8

84641

2

2x

AN3-3A

Bolt

Purchased No

120 Each 399.0000

22 22

DAS

28

9-89

DAS

31

9-89

Location

ST350

Loc Qty

399

Loc Code

123831

7

124552

1

m126192

1

m126249

190

m127044

200

19x

3x

November-21-13 2:28:12 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



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Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

November-21-13 2:28:12 PM

Page 4

Work Order ID: 109454

Parent Item: D412-711-021

Parent Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13

Required Date: 11/21/13

Start Qty: 1.00

Required Qty: 1.00

AN3-4A
Bolt

Purchased No

120 Each 735.0000

20 20

DAS
28
9-89

14-02-14

Location Loc Qty Loc Code

ST350 124
120308 80
122814 38
124858 6
ST511 498
m127044 498
ST512 113
120770 7
123900 1
125445 105

20x

DAS
31
9-89

AN3-6A
Bolt

Purchased No

120 Each 316.0000

26 26

DAS
28
9-89

Location Loc Qty Loc Code

ST350 16
M126192 16
ST511 300
M127044 300

26x

DAS
31
9-89

AN3-12A
Bolt

Purchased No

120 Each 129.0000

1 1

DAS
28
9-89

Location Loc Qty Loc Code

GA 6
122407 6
ST351 123
114536 1
123352 2
m125709 100
m125752 2
m126192 18

1x

DAS
31
9-89

November-21-13 2:28:12 PM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

November-21-13 2:28:12 PM

Page 5

Work Order ID: 109454

Parent Item: D412-711-021

Parent Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13

Required Date: 11/21/13

Start Qty: 1.00

Required Qty: 1.00

WAS1149F0332P

Washer

Purchased No

120

Each

7,358.0000

92

92

28
9-89

14-02-14

DAS
31
9-89

Location

Loc Qty

Loc Code

GA 182
122063 182
ST294 158
122063 158
ST295 3
123352 3
st510 2015
123900 2015
ST510a 5000
125646 5000

120

Each

121.0000

34

34

DAS
28
9-89

92x

GR3242-4-2

RIVET

DAS
31
9-89

Purchased No

Location

Loc Qty

Loc Code

ST329 121
m126268 21
m127304 100

120

Each

3,811.0000

135

135

DAS
28
9-89

117423(14x)
20x

MS20426AD3-3

RIVET

Purchased No

Location

Loc Qty

Loc Code

ST316 699
119109 282
19099 417
ST334 3112
121011 29
122814 120
123352 2963

120

Each

3,811.0000

135

135

DAS
28
9-89

117423

135x

DAS
31
9-89

November-21-13 2:28:12 PM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

November-21-13 2:28:12 PM

Page 6

Work Order ID: 109454

Parent Item: D412-711-021

Parent Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13

Required Date: 11/21/13

Start Qty: 1.00

Required Qty: 1.00

MS20426AD4-3
Rivet

Purchased No

120 Each 4,110.0000

140

140

DAS
28
9-89

14-02-13

DAS
31
9-89

Location

Loc Qty

Loc Code

GA

1110

113064

1110

ST334

3000

m125807

3000

140x

MS20470AD3-3

Purchased No

120 Each 5,973.0000

25

25

DAS
28
9-89

RIVET, UNIVERSAL HEAD

DAS
31
9-89

Location

Loc Qty

Loc Code

ST335

5973

1065

1093

16941

4880

25x

MS20470AD4-3

Purchased No

120 Each 5,667.0000

90

90

DAS
28
9-89

Rivet - Universal Head

DAS
31
9-89

Location

Loc Qty

Loc Code

GA

1581

1642

109

2193

1472

ST335

4086

2193

4086

90x

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

November-21-13 2:28:12 PM

Page 7

Work Order ID: 109454

Parent Item: D412-711-021

Parent Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13

Required Date: 11/21/13

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Nut

Purchased No

120 Each

7,409.0000

24

24

DAS
28
9.89

14-02-14

Location

Loc Qty

Loc Code

ST314

1035

M126036

35

M127304

1000

ST506

814

123900

814

ST509

3000

M127410

3000

ST510a

2560

M126275

8

M126333

2552

24x

MS21059L3

Nut Plate

Purchased No

120 Each

99.0000

4

4

DAS
28
9.89

Location

Loc Qty

Loc Code

ST316

99

124291

7

125535

3

m126275

41

m127304

48

127743

MS21069L3

ANCHOR NUT

Purchased No

120 Each

110.0000

34

34

DAS
28
9.89

Location

Loc Qty

Loc Code

ST317

110

120362

34

m127255

76

127813

MS21069L08

ANCHOR NUT

Purchased No

120 Each

952.0000

8

8

DAS
28
9.89

Location

Loc Qty

Loc Code

ST317

952

123522

952

8x

DAS
31
9.89

November-21-13 2:28:13 PM

Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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November-21-13 2:28:13 PM

Page 8

Work Order ID: 109454

Parent Item: D412-711-021

Start Date: 11/21/13

Required Date: 11/21/13

Parent Item Name: Vertical Reference Door Modification LH

Start Qty: 1.00

Required Qty: 1.00

MS21071L3 Purchased No

120 Each 216.0000

3 3

DAS
28
9-89

14-02-13

DAS
31
9-89

Location

Loc Qty

Loc Code

ST317

216

123301

66

124291

50

125654

100

3x

MS21071L08
ANCHOR NUT

Purchased No

120 Each 180.0000

1 1

DAS
28
9-89

Location

Loc Qty

Loc Code

Mezz

100

103447

100

ST318

80

102587

80

1x

DAS
31
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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QTY -011	QTY -013	QTY -015	QTY -017	QTY -019	QTY -021	QTY -041	QTY -043	PART NUMBER	DESCRIPTION
X								D412-711-011	VERTICAL REFERENCE DOOR INSTALLATION, 212/412
	X							D205-711-013	VERTICAL REFERENCE DOOR INSTALLATION, 205/210
		X						D204-711-015	VERTICAL REFERENCE DOOR INSTALLATION, 204
			X					D214-711-017	VERTICAL REFERENCE DOOR INSTALLATION, 214
				X				D212-711-019	VERTICAL REFERENCE DOOR EAGLE SINGLE
1	1	1	1	1	X			D412-711-021	VERTICAL REFERENCE DOOR KIT
						X		D412-711-041	VERTICAL REFERENCE DOOR ASSEMBLY
							X	D412-711-043	SNAP VENT KIT
						1		D412-761-043	MODIFIED LATCH MECHANISM KIT, LH (REPLACES EA20469-23/-24/-25)
						1		D412-711-101	REPLACEMENT WINDOW (REPLACES EAGLE P/N EB212-100L / EA20469-3)
						1		D3802-1-120	RUBBER STRIP
							2	D3932-1	SNAP VENT
						1		D4165-1	DOUBLER
						1		D4165-3	DOOR INNER SKIN (REPLACES EA20469-18)
						1		* D4165-5	AFT RIB (REPLACES EA20469-34)
						1		** D4165-7	FWD RIB (REPLACES EA20469-31)
						1		D4165-9	ANGLE (REPLACES EA20469-17)
						1		D4165-11	DOOR COVER PANEL (REPLACES EA20469-21)
						1		D4207-1	WINDOW RETAINER (REPLACES EA20469 -14)
						1		D4207-3	WINDOW (REPLACES EA20469-13)
						1		* D4269-1	ANGLE (REPLACES EA20469-33)
						1		** D4269-3	ANGLE (REPLACES EA20469-30)
						1		** D4269-5	ANGLE (REPLACES EA20469-29)
						1		* D4269-7	ANGLE (REPLACES EA20469-32)
						1		*** D4324-041	ARM REST ASSEMBLY
						1		*** D4324-043	ARM SUPPORT ASSEMBLY
						1		D4327-1	ANGLE (REPLACES EA20469-11)
						1		D4327-3	ANGLE (REPLACES EA20469-07)
						2		D4385-1	PLACARD

* PART OF EA20469-10 REAR RIB ASSEMBLY
 ** PART OF EA20469-12 FWD RIB ASSEMBLY
 *** PART OF EA20469-16 ARM REST ASSEMBLY

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. H
MFG. APPR.	N/A	D412-711	SHEET 2 OF 6
APPROVED		TITLE	SCALE
DE APPR.		VERTICAL REFERENCE DOOR NTS	
DATE	11.05.04	COPYRIGHT © 2004 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

REFERENCE ONLY

QTY -011	QTY -013	QTY -015	QTY -017	QTY -019	QTY -021	QTY -041	PART NUMBER	DESCRIPTION
					22	22	AN3-3A	BOLT
					20	20	AN3-4A	BOLT
					26	26	AN3-6A	BOLT
					1	1	AN3-12A	BOLT
					92	92	NAS1149F0332P	WASHER (OR AN960-10L)
					34	34	CR3242-4-2	RIVET
					135	135	MS20426AD3-3	RIVET
					140	140	MS20426AD4-3	RIVET
					25	25	MS20470AD3-3	RIVET
					90	90	MS20470AD4-3	RIVET
					24	24	MS21042L3	NUT
					4	4	MS21059L3	NUT PLATE
					34	34	MS21069L3	NUT PLATE
					8	8	MS21069L08	NUT PLATE
					3	3	MS21071L3	NUT PLATE
					1	1	MS21071L08	NUT PLATE
A ₁	A ₁	A ₁	A ₁	A ₁		1	204-030-853-119	LH COPILOT DOOR
1							D412-711-111	WIRING HARNESS, 212/412
B ₁							B ₁ D4268-043	INSTRUMENT PANEL, 212/412 (REPLACES EA20469-15-412)
	1						D205-711-113	WIRING HARNESS, 205
	B ₁						B ₁ D4268-041	INSTRUMENT PANEL, 205 (REPLACES EA20469-15-205)
		1					D204-711-115	WIRING HARNESS, 204
		B ₁					B ₁ EA20469-15-204	INSTRUMENT PANEL, 204
			1				D214-711-117	WIRING HARNESS, 214
			B ₁				B ₁ EA20469-15-214	INSTRUMENT PANEL, 214
				1			D212-711-119	WIRING HARNESS, EAGLE SINGLE
				B ₁			B ₁ D4268-047	INSTRUMENT PANEL, EAGLE SINGLE

(A) CUSTOMER SUPPLIED

(B) INSTRUMENT PANEL INCLUDED WITH HARNESS ABOVE

NOTES

1) WIRING HARNESSES:

For Bell 204/205/210/214 Wiring Harnesses, use drawing D2046904.
For Bell 212 Wiring Harnesses, use drawing D2046903.
For Bell 412 Wiring Harnesses, use drawing D412-711-901.
For Bell 212 modified per SH07-28/SR02831NY use D212-761-224
or D212-761-225 depending on aircraft s/n.

Wiring Harnesses will vary
depending on aircraft s/n.

2) D412-711-101 REPLACEMENT WINDOW:

To increase downward viewing clarity, it is acceptable to cut a small section from the replacement window on its downward side per Figure 1 of this document. The cutout can be a maximum of 9.00" wide x 17.00" long (229mm x 432mm), measured along the profile of the replacement window. The corners of the cutout must have a minimum radius of 2" (50mm). The cutout should be located at least 1.0" (25mm) from the flange. The actual shape of the cutout can vary as desired, as long as the overall dimensions are within the specified limits. See Figure 1 for reference.

3) D412-711-043 SNAP VENT KIT:

It is acceptable to install a total of up to 2X D3932-1 Snap Vents (available from Dart) onto the D412-711-101 Replacement Window to provide ventilation into the cabin. Refer to Figure 1 for acceptable locations and size of cutouts.

4) It is acceptable to use MS21042L3 nuts to install the window in lieu of anchor nuts shown on D2046901.

DESIGN	CH	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	CH	DRAWING NO.	REV. H
MFG. APPR.	N/A	D412-711	SHEET 3 OF 6
APPROVED	CH	TITLE	SCALE
DE APPR.	CH	VERTICAL REFERENCE DOOR NTS	
DATE	11.05.04	COPYRIGHT © 2004 BY DART AEROSPACE LTD	
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

Work Order ID 109454

November-21-13 2:28:13 PM

3. MMS
109454

Page 1

Item ID: D412-711-021

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Vertical Reference Door Modification LH

Start Date: 11/21/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 11/21/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: *MLS*

Date: *13-11-25* Tooling:

Date:

Run Start

NR1

QC:

Date: SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

D412-711

G

100

0.00

100

DOCUMENT CONTROL

DC

Memo *M. N.*

0.00

Document Control

Photocopy bluefiles and create labels per PPP D412-711-021 CHG001

MLS 14-02-14

120

Pick Kit

0.00

120

Purchasing

Packaging

Memo

0.00

Packaging

1x DAS 28 14-02-13 9-09

130

QC4- 100% Inspect kits for completeness

0.00

130

QC

Memo

0.00

Quality Control

